

Figure 1

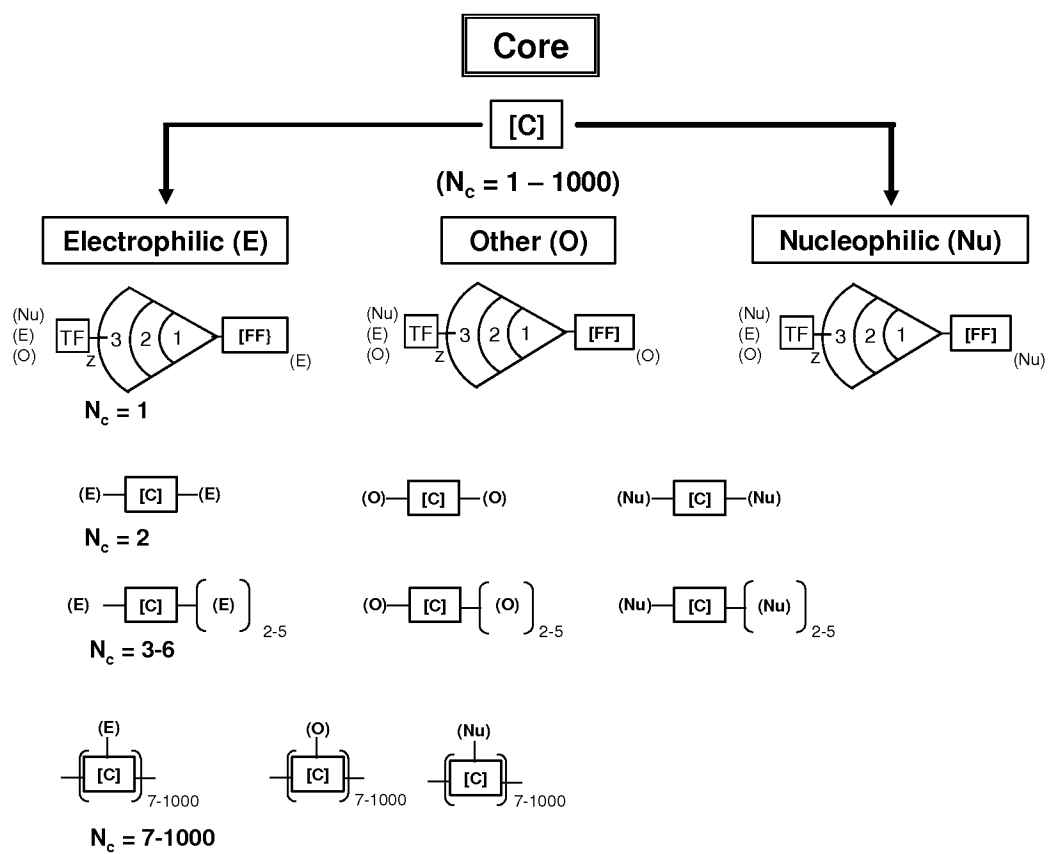
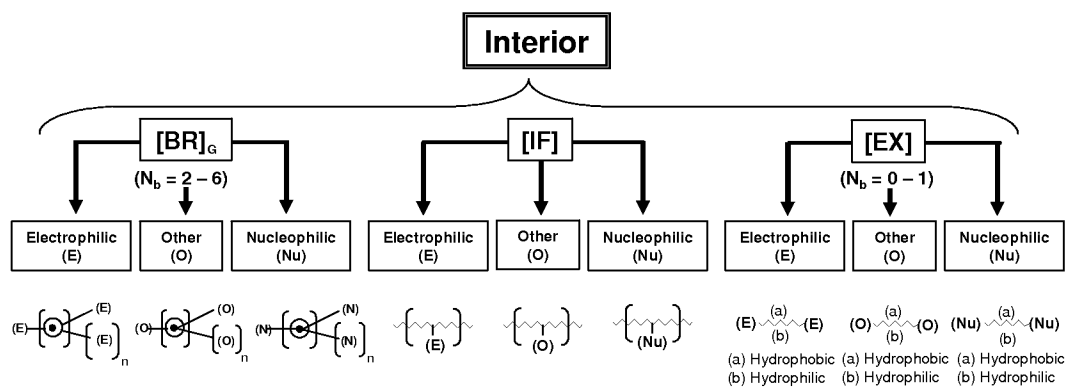


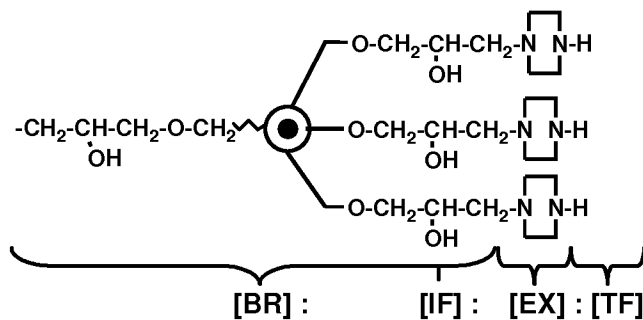
Figure 2



Where: n = 1-4

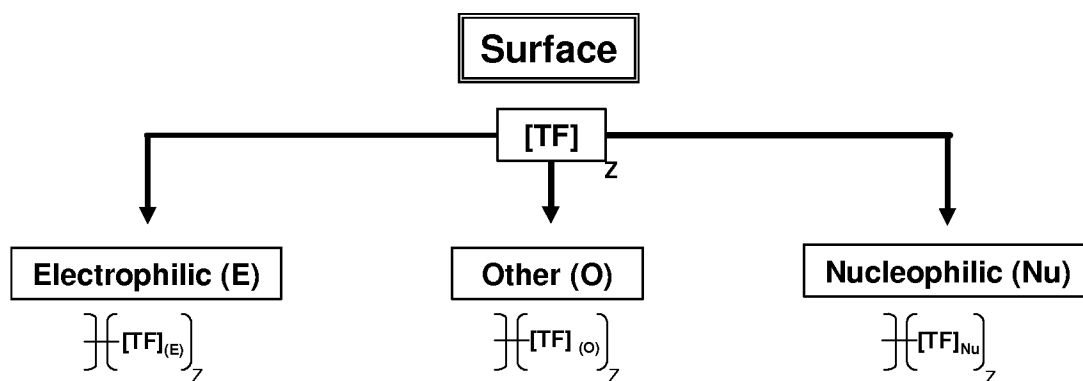
Figure 3

Branch Cell Structure Resulting from a Tetra Glycidyl Ether



Where: $N_b = 3$

Figure 4



Where: $z = N_c N_b^G$

Figure 5

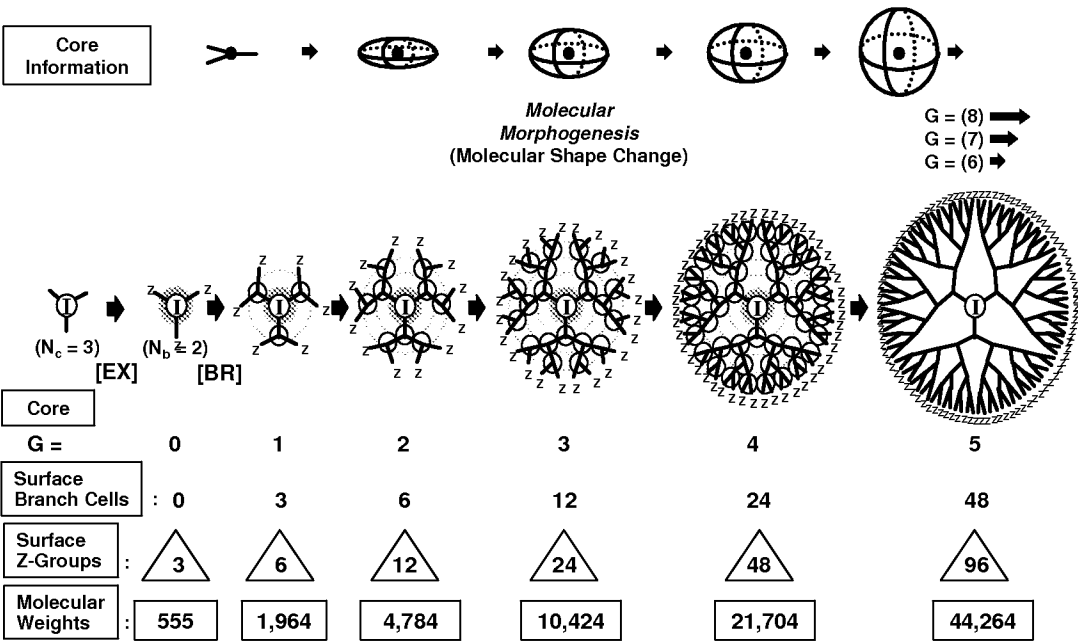


Figure 6

Nanoscale Sterically Induced Stoichiometry (NSIS) Effects

S_1 = Size of Core, Scaffolding Core, Super Core

S_2 = Size of Branch Cell Reagent, FF-Dendron

Where: [TF] = •

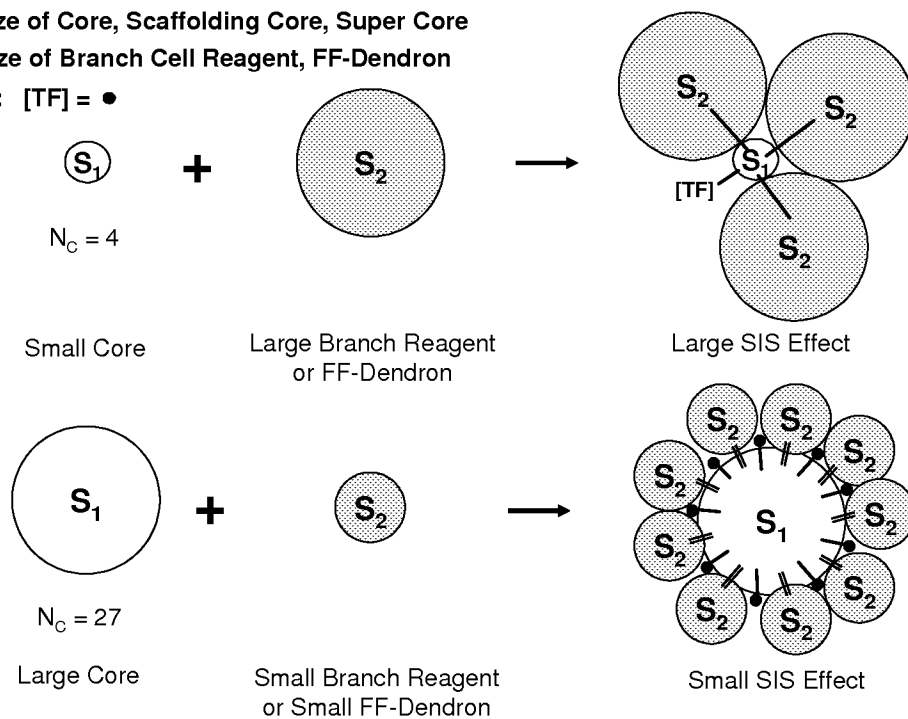


Figure 7

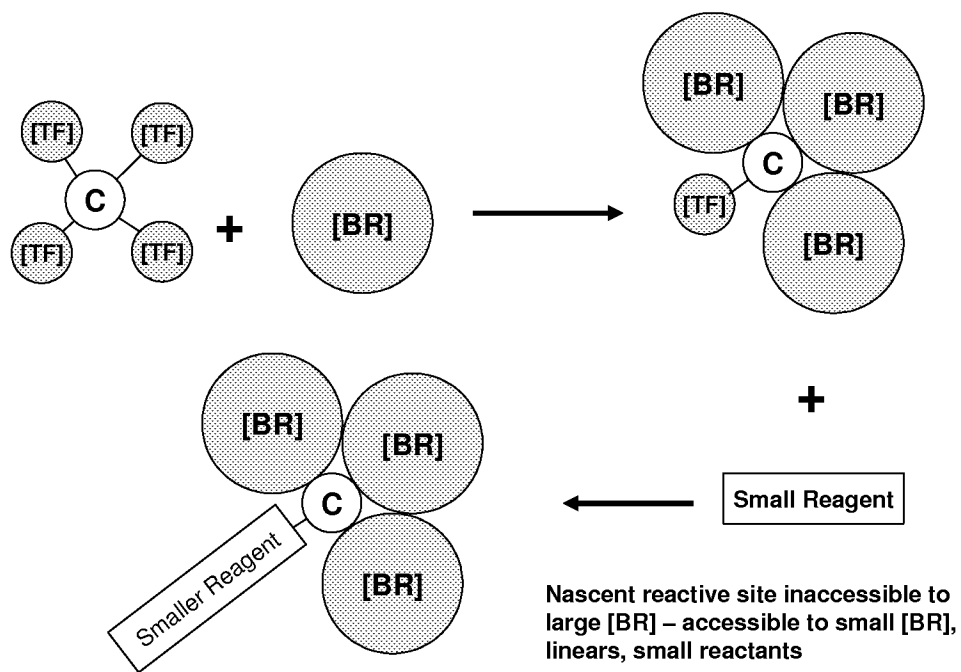
NSIS Induced Formation of Nascent Functionality/Reactivity

Figure 8

Combinatorial Reactivities of Nucleophilic (Nu), Electrophilic (E), Other (O) (Free Radical) Features of the Core [C], Branch Cell Reagent [BR], Extender [EX], Focal Point Functional Dendron (FF-D) and Terminal Functionality [TF]

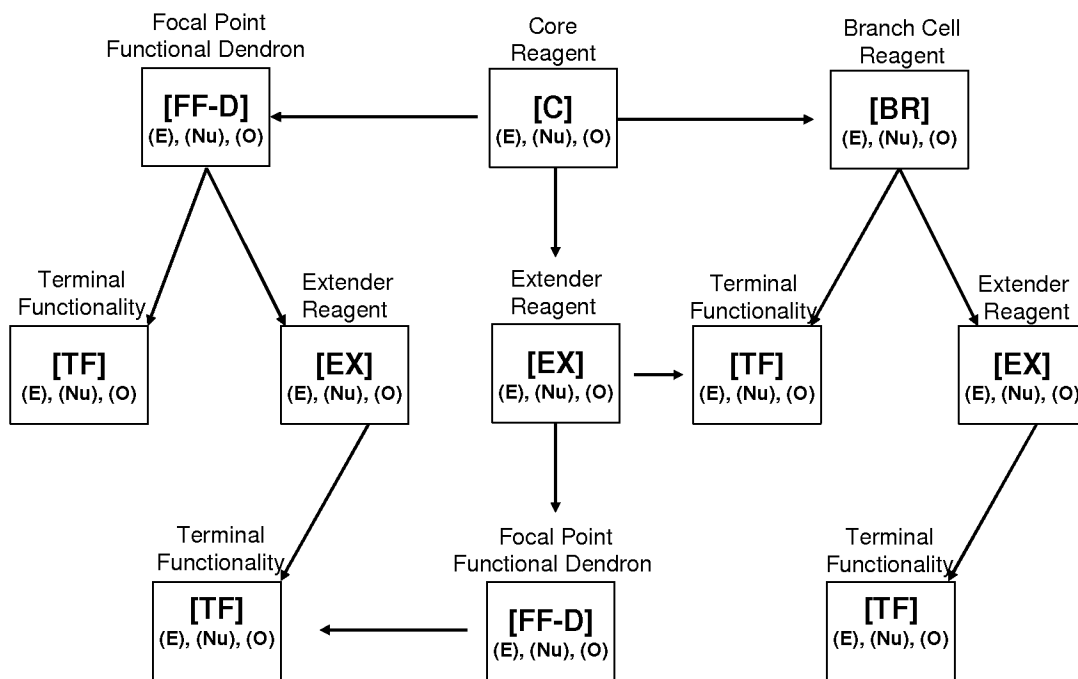
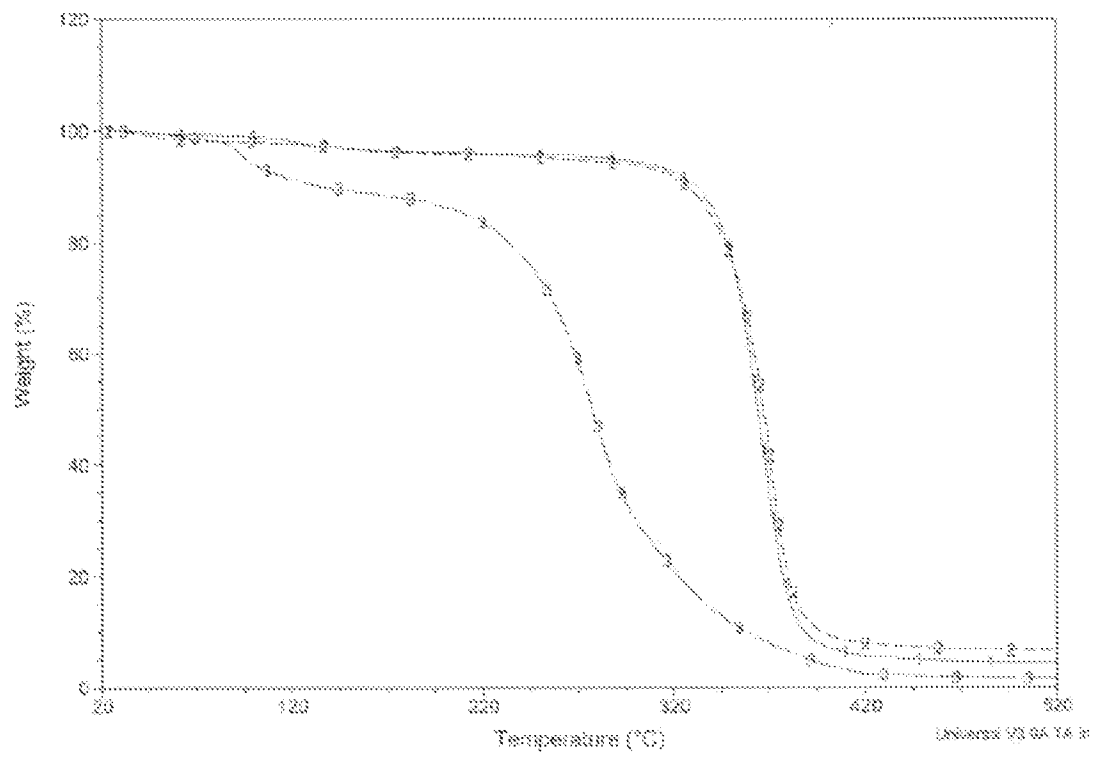
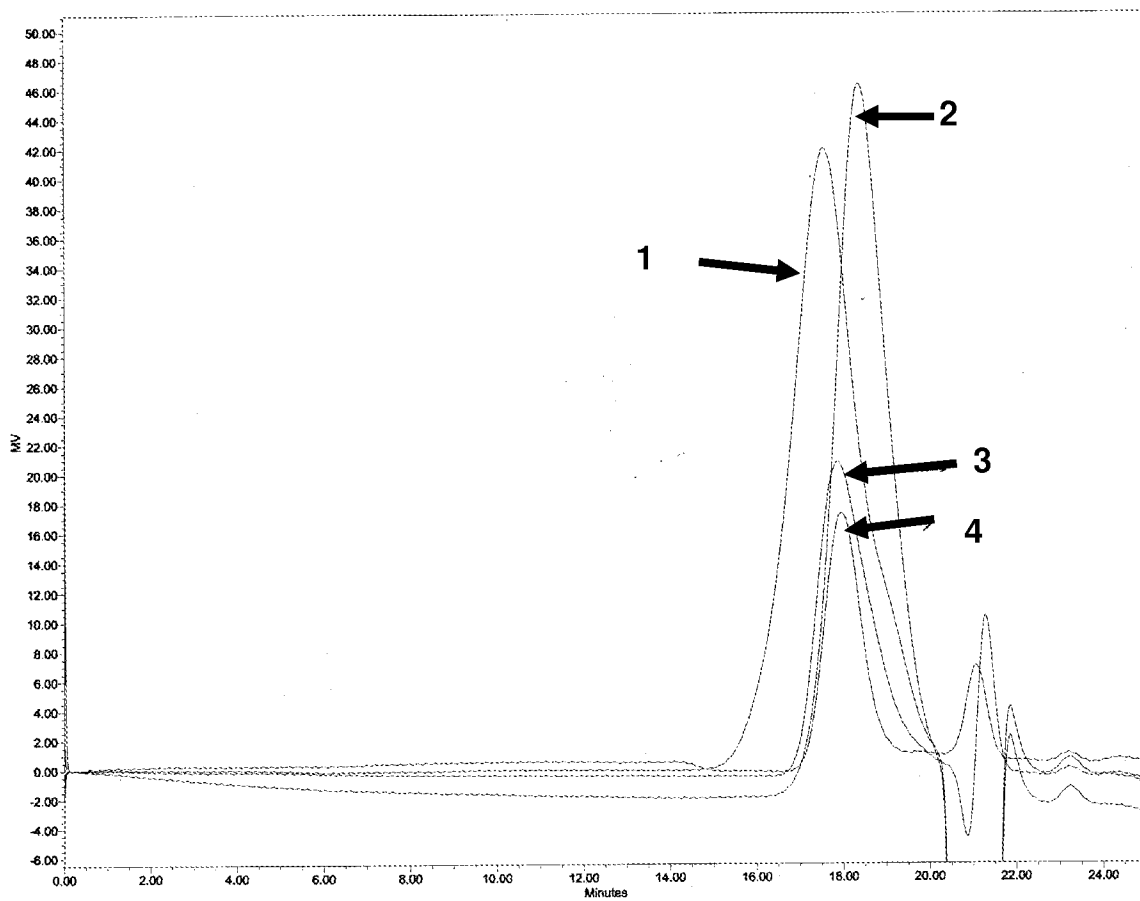


Figure 9

**Figure 10**

**Figure 11**